INFORMIX® 4.1 Software Release Guide

Read me First!

This Software Release Guide (SRG) contains important information that you need before you install or use this product.

MOTOROLA INC.

IX41/6S2

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1. RELEASE DESCRIPTION

This Software Release Guide (SRG) tells the installer how to load the software onto the Motorola computer. Although the installer is the intended audience, the user of this product may benefit from reading this guide. It is the installer's responsibility to inform the users of known problems described in Section 5 of this SRG.

NOTE

Read this entire guide before attempting to install this product. This document and any accompanying errata sheets supersede all other installation instructions except where otherwise stated.

1.1 Product Overview

INFORMIX 4.1 Tools includes the following products:

- INFORMIX-SQL 4.10.UC2 (XS86.01)
- INFORMIX-SQL/Runtime 4.10.UC2 (XS86.01r)
- INFORMIX-4GL 4.10.UC2 (XG86.01)
- INFORMIX-4GL/Runtime 4.10.UC2 (XG86.01r)
- INFORMIX-4GL RDS 4.10.UC2 (XA86.01)
- INFORMIX-4GL ID 4.10.UC2 (XB86.01)

INFORMIX 4.1 Engines includes the following database engines, language, and network software products:

- Database Engines
  - INFORMIX-SE 4.10.UC2 (XM02.01)
  - INFORMIX-OnLine 4.10.UC2 (XT86.01)
- Language Products
  - INFORMIX-ESQL/C 4.10.UC1 (XE86.01)
  - INFORMIX-ESQL/COBOL 4.10.UC1 (EC02.01)
  - INFORMIX-ESQL/Runtime 4.10.UC1(XE86.01r)

- Network Software
  - INFORMIX-NET 4.10.UC2 (XI83.01)
  - INFORMIX-STAR 4.10.UC2 (XJ83.01)
- C-ISAM 4.10.UC1 (XC86.01)

1.2 Release Characteristics

This is a maintenance release of INFORMIX for the SYSTEM V/68 Operating System.

1.3 Product Package

The INFORMIX 4.1 Tools product package consists of the following items:

- INFORMIX 4.1 Tools product tape for the products purchased (see subsection 1.1 for Release ID numbers)
- *INFORMIX UNIX Products Installation Guide*, Version 4.1
- *INFORMIX 4.1 Software Release Guide* (this document)
- The following manuals associated with the products purchased:
  - *INFORMIX-SQL User's Guide*
  - *INFORMIX-Guide to SQL: Reference*
  - *INFORMIX-Guide to SQL: Tutorial*
  - *INFORMIX-SQL Reference Manual*
  - *INFORMIX-4GL User's Guide*
  - *INFORMIX-4GL Reference Manual Volume 1*
  - *INFORMIX-4GL Reference Manual Volume 2*
  - *INFORMIX-4GL Supplement*
  - *INFORMIX-4GL by Example*
  - *INFORMIX-4GL Interactive Debugger*

The INFORMIX 4.1 Engines product package consists of the following items:

- INFORMIX 4.1 Engines product tape for the products purchased (see subsection 1.2 for Release ID numbers)
- *INFORMIX UNIX PRODUCTS Installation Guide*, Version 4.1

- *INFORMIX 4.1 Software Release Guide* (this document)
- The following manuals associated with the products purchased:
  - *INFORMIX-ESQL/C Programmer's Manual*
  - *INFORMIX-ESQL/COBOL Programmer's Manual*
  - *INFORMIX C-ISAM Programmer's Manual*
  - *INFORMIX-OnLine Conversion Guide*
  - *INFORMIX-OnLine Programmer's Manual*
  - *INFORMIX-OnLine Administrator's Guide*
  - *INFORMIX-NET/INFORMIX-STAR User Guide*

The runtime versions of INFORMIX products do not include manuals.

2. INSTALLATION DEPENDENCIES

The following subsections list the software and hardware required to run INFORMIX 4.1. Additionally, we have provided a list of the documentation about other products required to successfully install INFORMIX 4.1.

2.1 Software Dependencies

This release requires the following software:

- SYSTEM V/68 R3V6.2 BOS (FE03.62) or R3V7 (FE03.70)
- INFORMIX-SE (XM02.01) or INFORMIX-OnLine (XT86.01) (C-ISAM without any other INFORMIX product does not require either database engine)

For INFORMIX-NET and INFORMIX-STAR network,

- SYSTEM V/68 R3V6.2 Network Services Extension (NS03.62) or R3V7 Network Services Extension (NS03.70)

For INFORMIX-ESQL/COBOL,

- Micro Focus COBOL/2 (MC82.02)

INFORMIX 4.1 may also work with later releases of this software. Contact your sales representative for more information.

2.2 Hardware Dependencies

This release requires the following hardware:

- Delta Series 3000 Computer
- At least one terminal from the list in Subsection 3.2
- Sufficient disk space as defined in Subsection 4.1
- Sufficient memory as defined in Subsection 4.1
- A minimum of 8 Mb of DRAM

INFORMIX 4.1 may also work with later releases of this hardware. Contact your sales representative for more information.

2.3 Other Documentation

You may need the following documentation to install INFORMIX 4.1:

- *SYSTEM V/68 Release 3 Administrator's Guide*

3. SUPPORT FEATURES

Motorola has approved other products for use with INFORMIX 4.1. The subsections that follow identify these products which include other hardware and software. INFORMIX 4.1 does not require these products to work properly.

3.1 Printers Supported

Table 1 identifies some of the printers that work with INFORMIX 4.1; Table 2 defines the emulation numbers used in Table 1.

Table 1. Printers Supported

Printer ID	Type	Emulation
PT2100	Fujitsu DX2100	2
PT2200	Fujitsu DX2200	2
PT3041	Fujitsu M3041	3
PT3042	Fujitsu M3042	3
PT3043	Fujitsu M3043	3
PT3607	Hitachi UP-700	3
PT3610	Hitachi UP-1000	3
PT3615	Hitachi UP-1500	3
PT3620	Hitachi UP-2000	3
PT4100	Dataproducts LZR-1230	2,4
PT4110	Dataproducts LZR-1260	4,5
PT830	Texas Instruments 830	2
PT835	Texas Instruments 835	2
PT4206	Texas Instruments Microlaser	4
PT4216	Texas Instruments PostScript	4,5
PT4310	Texas Instruments Microlaser XLPS 35	4,5

Table 2. Emulation Numbers

Number	Emulation	Number	Emulation
1	Diablo 630	4	HP LaserJet Plus
2	Epson FX-80	5	PostScript
3	Dataproducts B600		

3.2 Terminals Supported

Table 3 identifies some of the terminals that work with INFORMIX 4.1.

Table 3. Terminals Supported

Terminal	Keyboard	Screen	terminfo	Mode
TM3500	TM3100	24x80	tm228i	TM3000
TM3500	TM3200	24x80	tm228	TM3000
TM3600	TM3100	24x80	tm229i	TM3000
TM3600	TM3200	24x80	tm229	TM3000
TM5000	KB0220	24x80	tm220	VT220-8
TM5000	KB0101	24x80	wy60epc	Wyse 60
TM5370	KB0220	24x80	tm220c	VT220-8
PC220	101-Key AT	25x80	pc220	N/A
PC220C	101-Key AT	25x80	pc220c	N/A

3.3 Keyboard Overlays Available

INFORMIX 4.1 does not require keyboard overlays.

3.4 Other Hardware Compatibilities

See your sales representative if you have questions regarding the compatibility of other hardware products.

3.5 Software Compatibilities

See your sales representative if you have questions regarding the compatibility of other software products.

4. INSTALLATION PROCEDURE

As installer, you should be familiar with all the facets of system administration, including the System Administration Menu Package (**sysadm**) command and the various networking commands.

Additionally, remember that these conventions apply in the procedures that follow.

- Items that you have to type at the keyboard are in **bold**. For example

  sysadm installpkg

  Enter these items exactly as they appear in the text.
- Variables (entries that are similar but unique in each instance) and comments in screen examples are in ***bold italics.*** For example the command

  kill *PID# PID#* ...

  indicates that you should enter the unique PID#s for the specific processes.
- Arguments you can repeat are followed by an ellipsis (...). The example above indicates that you can enter more than two PID#s.
- Optional values appear in square brackets; for example the prompt

  Is this correct? [y, n, ?, q]

  accepts **y**, **n**, **?**, or **q** as valid entries.
- The screen displays reproduced in this document appear in boxes and in **bold.**
- The screen displays are provided as examples only. Some of the information may be different depending on your system configuration.

4.1 Preparation for Installation

There are several things you need to do before starting the installation of INFORMIX 4.1. Please review the checklist to be sure that you are ready before you start the procedure.

Read pages 1 through 7 of the *INFORMIX UNIX PRODUCTS Installation Guide*, Version 4.1 before installing any of the INFORMIX products.

✔ Determine the installation directory

You must install all INFORMIX 4.1 products in the same directory.

✔ Determine the installation order

For the network products, refer to the *INFORMIX-NET/INFORMIX-STAR User Guide*. You must install INFORMIX-4GL before you install INFORMIX-4GL ID. You must install INFORMIX-NET or INFORMIX-STAR after installing all development tools and database engines.

If you are installing more than one INFORMIX product, you must complete the installation procedures for one before continuing to the next.

Except as noted above, you can install INFORMIX 4.1 Tools and Engines in any order.

✔ Determine if you have enough disk space

Table 4 lists the correct amount of disk space required to install INFORMIX 4.1 products on your system.

Table 4. Disk Space Required

Product	Product ID	Blocks Required
INFORMIX-SQL	XS86.01	3000
INFORMIX-SQL/Runtime	XS86.01r	2500
INFORMIX-4GL	XG86.01	8200
INFORMIX-4GL/Runtime	XG86.01r	4126
INFORMIX-4GL RDS	XA86.01	3000
INFORMIX-4GL ID	XB86.01	2500
INFORMIX-SE	XM02.01	3700
INFORMIX-OnLine	XT86.01	12000
INFORMIX-ESQL/C	XE86.01	2000
INFORMIX-ESQL/COBOL	EC02.01	2000
INFORMIX-ESQL/Runtime	XE86.01r	300
C-ISAM	XC86.01	1000
INFORMIX-NET	XI83.01	2000
INFORMIX-STAR	XJ83.01	2400

To find out how many free blocks you have, enter the following command, and press Return:

df -t

The system responds with the value for each defined file system.

✔ Determine if you have enough memory

Refer to the *INFORMIX-OnLine Administrator's Manual* for information about raw partitions and shared memory parameters.

The amount of memory appears on the console when you start ("boot") the system. You must also consider the amount of memory required for other software products that you plan to run concurrently with INFORMIX 4.1. Refer to the products' SRGs for these figures.

✔ Backup your system

As a precaution, make a full backup of the system before installing any new product. To do this, use the System Administration Menu Package (**sysadm**) utility described in the *SYSTEM V/68 Release 3 System Administrator's Guide*.

✔ Shut down the current version of the product

If INFORMIX 4.1 is already running on the system, follow this procedure to shut it down.

1. Log on as **root**.
2. Have all users log off the system.
3. If you are installing INFORMIX-OnLine and there is a version of INFORMIX-OnLine running on the system, refer to the *INFORMIX-OnLine Administrator's Guide* for shut down instructions before installing the new version.

   If you are installing INFORMIX-NET or INFORMIX-STAR, verify that the **sqlexecd** and **tbinit** daemon processes are not running before installing this release of INFORMIX 4.1. Enter the following commands, and press Return after each to determine the **sqlexecd** and **tbinit** daemon process id number:

   ps -ef | grep sqlexecd

   ps -ef | grep tbinit
4. Stop the processes with the following command:

   kill -9 *PID# PID#...*

   where *PID#* is the **sqlexecd** and **tbinit** daemon process id numbers determined in Step 3.

4.2 Installation of the Product

The following procedure replaces Steps 1 through 16 of "Installing INFORMIX Products" in the *INFORMIX UNIX PRODUCTS Installation Guide*, Version 4.1. If you are installing C-ISAM, the following procedure also replaces Steps 1 through 13 of "Installing C-ISAM" in the *INFORMIX UNIX PRODUCTS Installation Guide*, Version 4.1. Use the following procedure to install all the INFORMIX 4.1 products:

1. Log on as **root.**
2. Enter the following command, and press Return:

   sysadm installpkg

   The **sysadm** program begins and displays the following:

```
Running subcommand 'installpkg' from menu 'softwaremgmt',
SOFTWARE MANAGEMENT

Select which drive to use:
        1 ctape          2 diskette1        3 hddiskette1
Enter a number, a name, the initial part of a name, or
? for HELP, q to QUIT:
```

   In the following messages, *product_name* appears for the name of the INFORMIX product you are installing. The block sizes for disk space and relocatable product files in these examples vary depending on the INFORMIX 4.1 product you are installing.

3. Enter **1**, and press Return. The following message appears:

```
Insert the removable medium for the package you want to install
into the ctape drive.

Press <RETURN> when ready. Type q to quit.
```

4. Insert the product tape into the drive, and press Return. In a few moments, the following message appears:

```
Installing "INFORMIX product_name"

Press <RETURN> to continue, type q to quit.
```

5. Press Return to continue the installation. The following message appears:

```
xx blocks
Checking for super-user privileges...done
Checking for proper Run-State...done
Your space requirements to load INFORMIX product_name are:
Relocatable Product Files: xxx blocks
```

where *xx* is the number of blocks required for the INFORMIX 4.1 you are installing.

NOTE

The number that appears is wrong; refer to Table 4 for actual disk space required.

The installation process continues with a list of currently available disk space:

```
/       (/dev/dsk/m323_0s0):     15344 blocks    5731 i-nodes
/usr    (/dev/usr         ):     5200 blocks     31887 i-nodes
/usr2   (/dev/dsk/m323_0s2):     114944 blocks   24386 i-nodes

What directory do you wish to install INFORMIX product_name in?
(just press RETURN for the default) [default_dir]
```

where *default_dir* is **/usr/informix4.1** for INFORMIX 4.1 Tools and **/usr2/informix4.1** for INFORMIX 4.1 Engines.

6. Press Return to accept the default directory, or enter the full path of the directory in which you want to install INFORMIX 4.1.

NOTE

If the **/usr2** file system does not exist on your system, DO NOT accept the default as the installation directory. Choose one of the available file systems listed in the display in Step 5. You must install INFORMIX 4.1 Tools and Engines in the same directory.

If the directory you specify exists, skip to the screen display in Step 7. If the directory you specify does not exist, the following message appears:

***install_dir* does not exist - create it? [y]**

where *install_dir* is the default installation directory (**/usr/informix4.1** for Tools and **/usr2/informix4.1** for Engines) or the installation directory you specified.

7. Press Return to create the new directory. The system checks for adequate space on the disk and the following messages appear:

```
Checking directory install_dir for adequate space...okay

Available loading space: xxxxx blocks (approx. xx Meg)
Total space requirement: xxx blocks

Beginning transfer of INFORMIX product_name files
Loading relocatable files into install_dir...done
Rewinding tape...done

Checking Group Requirements...done

/etc/group has been modified! A safe copy of its original
contents can be found in /etc/group.before if needed.

Checking User Requirements...done

/etc/passwd has been modified! A safe copy of it's original
contents can be found in /etc/passwd.before if needed.

Setting INFORMIX product_name files owners, groups, and modes ...done

Creating .profile...done

Installing User Setup Information...done

INFORMIX product_name
Copyright (C) 1986-1991 Informix Software, Inc.

Installation Script

This installation procedure must be run by root (super-user).
It will change the owner, group, and mode of all files of this
package in this directory. There must be a user "informix" and a group
"informix" known to the system.

Press RETURN to continue
or the interrupt key (usually CTRL-C or DEL) to abort.
```

8. Press Return to continue. The following message appears:

```
Enter your serial number (e.g., INF#X999999) >
```

9. The serial number for this release is on a card in the product package. Enter the serial number, and press Return. The following message appears:

```
Enter your serial number KEY (uppercase letters only) >
```

10. The Key number for this release is on a card in the product package. Enter the Key number, using uppercase letters only, and press Return. The following message appears:

```
WARNING: This INFORMIX SOFTWARE, INC. SOFTWARE is licensed
for use by n SIMULTANEOUS USER(S) on this computer system. In the
event you exceed n simultaneous user(s), the End User License Agreement,
and the licenses granted to you thereunder, are subject to immediate
termination by Informix.

Press RETURN to continue,
or the interrupt key (usually CTRL-C or DEL) to abort.
```

where *n* is the number of users licensed for your system.

11. Press Return. If you are not installing C-ISAM, skip to the last screen display in Step 12. If you are installing C-ISAM, the following message appears:

```
The following files will be moved to the appropriate directories.

        Binary files:    bcheck
        Library files:   *libisam*.a, llib-lisam
        Header files:    isam.h, decimal.h

The default target directories for these files are

        Binary files:    /usr/bin
        Library files:   /usr/lib
        Header files:    /usr/include

You may specify a target location for these files other then "/usr"
at this time if you so desire. Do you wish to change the target
location for the directories?

Enter Y to change target directory or RETURN to continue.
```

12. Enter **y**, and press Return. The following message appears:

```
The default target directory of /usr will be used.
Moving Binaries to /usr/bin
Moving Libraries to /usr/lib
Moving Headers to /usr/include

C-ISAM Installation Complete
```

The installation process ends with the following message:

```
Installing directory.
(INFORMIX 4.1 installation directories listed here)
        :
Installation complete.
INFORMIX product_name install script completed successfully.
```

13. If this is the first version of INFORMIX installed on your system, refer to Subsection 5.1, "Configuring the Product."
14. If you have installed INFORMIX-OnLine, log on as **informix** and follow the instructions for starting and configuring INFORMIX-OnLine starting on page 2-11 of the *INFORMIX-OnLine Administrator's Guide.*
15. For the network products, refer to page 17 of the *INFORMIX-NET/INFORMIX-STAR User Guide* for configuration instructions.
16. Refer to the appropriate INFORMIX documentation for instructions on how to start the product.

4.3 Upgrading from a Previous Release

Upgrading from a previous release is no different than a first-time installation. Follow the procedure in Subsection 4.2.

4.4 Removal of the Product

If necessary, it is possible to remove the INFORMIX 4.1. To complete the removal procedure, you must have the applicable INFORMIX 4.1 product tape.

You can remove any of the INFORMIX 4.1 software products using **sysadm**. To remove the software,

1. Log in as **root**.
2. If you are removing INFORMIX OnLine or INFORMIX-STAR, shut down INFORMIX 4.1 according to the shutdown procedure in Subsection 4.1, "Preparation for Installation."
3. Enter the following command and press Return:

   sysadm removepkg

   The **sysadm** program begins, and the following then appears:

```
Running subcommand 'removepkg' from menu 'softwaremgmt',
The following software packages have been installed:

BOS       SYSTEM V/68 Base Operating System R3V6.2     FE03.62

(Other products are listed here.)

Select which drive to use:
        1 ctape          2 diskette1        3 hddiskette1
Enter a number, a name, the initial part of a name, or
? for HELP, q to QUIT:
```

   In the following messages, *product_name* appears for the name of the INFORMIX product you are removing. The block sizes for disk space and relocatable product files in these examples vary depending on the INFORMIX 4.1 product you are installing.

4. Enter **1**, and press Return. The following message appears:

```
Insert the removable medium for the package you wish to remove into the
ctape drive.

Press <RETURN> when ready. Type q to quit.
```

5. Insert the product tape into the drive, and press Return. The following message appears:

```
Removing "product_name"

Press <RETURN> when ready. Type q to quit.
```

6. Press Return. The following message appears:

```
xx blocks

Checking for super-user privileges...done
Checking for proper Run-State...okay
INFORMIX product_name will be removed from your system if you
continue.

Do you REALLY want to do this? [n]
```

7. Enter **y**, and press Return to continue the removal process. The removal process ends with the following message:

```
Removing INFORMIX product_name files...done

Checking /etc/group for Group Removal(s)...done

/etc/group has been modified! A safe copy of it's original contents can be
found in /etc/group.safety if needed.

Checking /etc/passwd for User Removal(s)...done

/etc/passwd has been modified! A safe copy of it's original contents can be
found in /etc/passwd.safety if needed.

Removing User Setup Information...done

INFORMIX product_name remove script completed successfully.

"INFORMIX product_name" is now removed.
```

NOTE

Removing an INFORMIX product removes

the corresponding **informix** entry in the **/etc/passwd** and **/etc/group** files. You may restore these files from **/etc/passwd.safety** and **/etc/group.safety** which were saved before the removal process.

5. RELEASE INFORMATION

5.1 Configuring the Product

When you install INFORMIX 4.1 Engines, you must configure INFORMIX-OnLine, INFORMIX-NET, and INFORMIX-STAR and set the INFORMIX environment variables as appropriate for each product.

For configuration procedures, refer to the *INFORMIX-OnLine Administrator's Guide*, *INFORMIX-NET/INFORMIX-STAR User Guide*, and **ONLINE_4.1** in the directory **$INFORMIXDIR/release**.

When you install INFORMIX 4.1 Tools, you must set the INFORMIX environment variables as appropriate for each product. Use the **usetup** command to set up the **$INFORMIXDIR** and **$PATH** environment variables. You may have to set additional environment variables depending on the products you install on your system. See the appropriate manuals for each product. If you are installing multiple products, you should complete the following setup procedure one time for the first product installed. The other products use this same environment.

To set the INFORMIX environment variables,

1. Log in as **root**.

2. Enter the following command, and press Return to set up the user environment:

   usetup *short_product_name user_name*

   where *short_product_name* is the variable for the product you are installing defined in the Table 5 below, and *user_name* is your login name.

   The following message appears:

user_name* set up for *short_product_name

Table 5 lists the short product name for each INFORMIX product:

Table 5. Short Product Names

Short Product Name	Informix Product
i4_1_sql	INFORMIX-SQL
i4_1_sql_rt	INFORMIX-SQL Runtime
i4_1_4gl	INFORMIX-4GL
i4_1_4gl_rt	INFORMIX-4GL Runtime
i4_1_4glrds	INFORMIX-4GL RDS
i4_1_4glid	INFORMIX-4GL ID
i4_1_esqlc	INFORMIX-ESQL/C
i4_1_esqlcobol	INFORMIX-ESQL/COBOL
i4_1_esql_rt	INFORMIX-ESQL runtime
i4_1_cisam	INFORMIX-CISAM
i4_1_online	INFORMIX-Online
i4_1_se	INFORMIX-SE
i4_1_inet	INFORMIX-NET
i4_1_istar	INFORMIX-STAR

5.2 Known Problems

- Refer to the files in the directory **$INFORMIXDIR/release** for known problems with this release of INFORMIX 4.1.
- The following message may appear during the removal of C-ISAM:

```
find: stat() failed: /appl1/informix4.1/etc : no such file or
directory

done
```

  Ignore this message.
- The following files are not removed during the removal of C-ISAM, and must be removed manually:

  bcheck (default directory is **/usr/bin**)
  ***libisam.a** (default directory is **/usr/lib**)
  llib-lisam (default directory is **/usr/lib**)
  isam.h (default directory is **/usr/include**)
  decimal.h (default directory is **/usr/include**)

5.3 Problems Fixed

Refer to the files in the directory **$INFORMIXDIR/release** for problems fixed with this release of INFORMIX 4.1.

5.4 Technical Tips

- Though the default installation directory for INFORMIX 4.1 Tools is **/usr/informix4.1** and the default installation directory for INFORMIX 4.1 Engines is **/usr2/informix4.1**, you must install the engines and tools in the same directory.
- Ignore references to C shell in INFORMIX manuals.

- We recommend that you use Control keys instead of Function keys in menu screens because the Function keys are hard coded for the TM3500, TM3600, and TM5370 terminals.
- If you plan to use INFORMIX 4.1 on an NDS terminal emulating vt100, the **INFORMIXTERM** variable corrupts the borders in the following INFORMIX products:
  - INFORMIX-4GL
  - INFORMIX-4GL Runtime
  - INFORMIX-4GL Rapid Development System
  - INFORMIX-4GL Rapid Development System Runtime
  - INFORMIX-4GL Interactive Debugger

  To work around this problem, unset the **INFORMIXTERM** variable using the **unset** command.

5.5 Tuning Parameters

Refer to **ONLINE_4.1** in the directory **$INFORMIXDIR/release** for tuning parameters with this release of INFORMIX 4.1.

6. DIRECTORIES AND FILES

The file **/usr/options/.BOM** contains a list of the files transferred during the INFORMIX 4.1 installation.

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